



Projekta Izp-2018/1-0020 rezultāti

Sārmu metālu divatomu molekulu struktūras un dinamisko īpašību noteikšana kvantu tehnoloģijām

Oriģināli zinātniskie raksti, kas publicēti zinātniskos žurnālos, rakstu krājumos vai konferenču rakstu krājumos, kuri ir indeksēti datu bāzēs Web of Science Core Collection, SCOPUS vai ERIH PLUS

1. Klincare, I.; Tamanis, M.; Ferber, R.; Pazyuk, E. A.; Stolyarov, A. V.; Havalyova, I.; Pashov, A. Intensities of KCs $E(4)1\Sigma^+ \rightarrow (a3\Sigma^+, X1\Sigma^+)$ band system up to dissociation threshold: an interplay between spin-orbit, hyperfine and rovibronic coupling effects. - J. Quant. Spectrosc. Radiat. Transf., 2022, <https://doi.org/10.1016/j.jqsrt.2022.108351>
2. Kruzins, A.; Krumins, V.; Tamanis, M.; Ferber, R.; Oleynichenko, A. V.; Zaitsevskii, A.; Pazyuk, E. A.; Stolyarov, A. V. Fourier-transform spectroscopy and relativistic electronic structure calculation on the $c3\Sigma^+$ state of KCs. - J. Quant. Spectrosc. Radiat. Transf., 2021, <https://doi.org/10.1016/j.jqsrt.2021.107902>
3. Znotins, A.; Kruzins, A.; Tamanis, M.; Ferber, R.; Pazyuk, E. A.; Stolyarov, A. V.; Zaitsevskii, A. Fourier-transform spectroscopy, relativistic electronic structure calculation, and coupled-channel deperturbation analysis of the fully mixed $A\ 1\ \varsigma^+$ and $b\ 3\ \Pi_u$ states of Cs₂. - Phys. Rev. A, 2019, <https://doi.org/10.1103/PhysRevA.100.042507>
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5. Klincare, I.; Kruzins, A.; Tamanis, M.; Ferber, R.; Pazyuk, E. A. Fourier-transform spectroscopy, direct potential fit, and electronic structure calculations on the entirely perturbed (4) 1Π state of RbCs, - Physivcal Review A, 2018, <https://doi.org/10.1103/PhysRevA.98.062517>

